

**Minutes of the Technical Advisory Board for Mechanical Environments of the
Confederation for European Environmental Engineering Societies
Held on 13th February 2002 at Heathrow Novotel, United Kingdom**

Present at the Meeting of the Technical Advisory Board **for** Mechanical Environments (TABME) were;

Dr U. Braunmiller	GUS
Mr M. Dumelin	SSEE
Mr T. Geise	PLOT
Mr G. Jansson	SEES
Mr M. Juntunen	SEEF
Mr. D. Richards	SEE (Chairman)
Mr J. Siren	SEES
Mr T. Trost	SEES
Dr K Zieghan	GUS

Matters Arising

A list of METAB members, including corresponding members, was circulated. As usual this list is attached to the minutes as Attachment No 1.

Systematisation of Measurement Methodologies

STANAG 4370. Marcus reported that work on issue 3 continued. The planned meeting in France was cancelled and the next meeting would be in Phoenix. A brief discussion on how to obtain STANAGS occurred, particularly that most of the technical content appears in Allied Publications, it was these that should be requested as the STANAG itself was usually only the agreement. Allied Publications (AP's) have different names for different STANAG's, for example the AP's for STANAG 4370 are AECTP's.

Mil Std 810F Nothing to report.

IEC TC104. David Richards reported that no meeting had occurred since the August meeting in Seattle (reported at the last TABME). The group were reminded that the maintenance teams are still working and comments can still be made to the maintenance teams. Markku apologised for causing some confusion at the last meeting concerning the scope of the working group he was working on (see note on last TABME minutes).

DIN 30787. Ulrich reported that work continues in small stages. Work proceeds to make this an international document. However, the lack of convenor on CEN TC 261 SC5 WG14 has meant this was delayed, a "written" vote is proposed to accept this document.

CEN TC 261 SC5 WG14 – Test Methods & Test Schedules . It was reported that no meetings of this group had occurred recently. In fact it was stated that it was currently "sleeping". This was because the previous convenor had retired (was Graham Gordon from PIRA) and no new convenor has been appointed. It was indicated that the search for new convenor is still underway. Karl advised that the main committee had discussed this and Karl had suggest CEEES may be a good source. He stated that if anybody was interested they should indicate this to BSI who are leading the search.

UN Orange Book. Karl updated a report on the proposed vibration / bounce test for the UN "orange" book. This had been proposed by the US several times (and rejected). Karl indicated this proposal was gaining support and it looked likely to succeed (Karl indicated the technical committee met the week before the TABME but did not know the outcome).

CWA for Defence Procurement. Karl presented a brief from the last meeting of this CWA. He pointed out that a working group had been set up to address life cycle and environmental aspects. The first priority is a compilation of existing standards. Karl indicated that funding for the CWA has been supplied by the EU commission. Karl also said that at the CWA meeting he had suggested CEEES could act as technical lead organisation for the life cycle and environmental aspects working group.

Overview At a previous meeting the group had generated an overview of European and International work currently underway relating to transportation stresses. That overview was included as an attachment in the minutes of the last meeting. This meeting reviewed and updated the chart. The updated version is include here as attachment No 2. [Chairmans note: It is intended to review this chart on a regular basis.]

The Possibility of Initiating a CEN Workshop Agreement.

Background. At the September 2003 meeting of the TABME a discussion had occurred on the possibility of initiating a CWA. It had been observed that work on both DIN 30786 and the work of IEC TC 104 WG 15 had resulted in the collation of transportation vibration and shock data. Previously PLOT had attempted to set up a group of agencies to collect and collate vibration and shock transportation data. A CEN Workshop Agreement (CWA) could permit much of the current and future data to be deposited in a manner which would allow ready access by a variety of end-users of the METAB.

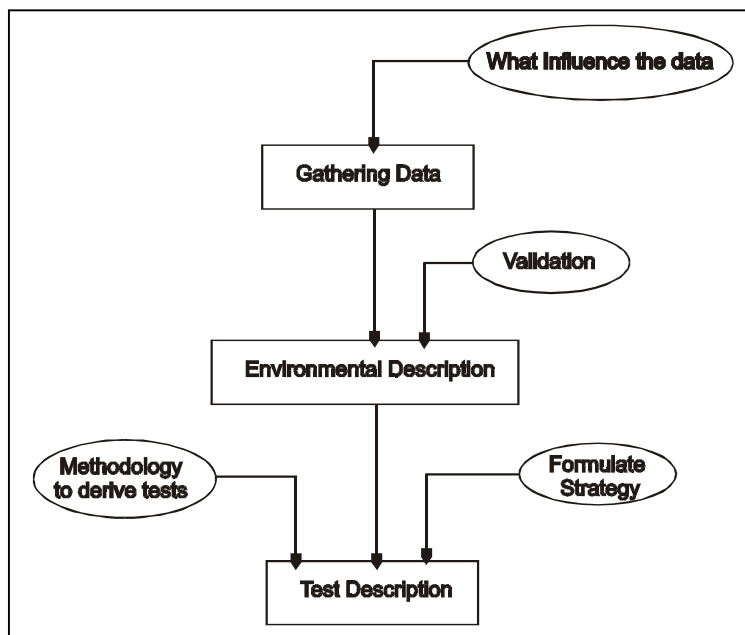
It was stated that initiating a CWA would require a business case and also self supporting financially. A CWA would need a workshop to initiate a suitable business case. It was agreed to continue to pursue the idea. The chairman asked all members to take the need for a business case back to their national societies for consideration.

Chairmans Note; a few days after the TABME meeting CEN asked Karl whether we wanted further discussions on setting up a CWA.

Technical Papers - Working Practices

A decision was made at a previous meeting to compile a “working practices” document on the subject of deriving environmental and test severities from measured data. Following the previous discussions the Chairman had prepared an circulated a draft paper for comment at the last meeting. A further draft was circulated at this meeting for discussion.

During previous discussions it became apparent that the paper needed an overview. It was agreed and the working practices would need an overview of the larger process. It was further suggested that this could follow the same process as that of a paper by Markku viz. Environmental Test Tailoring Management plan, Life Cycle, Environmental Conditions, Derivation of Test Specification. Markku undertook to prepare an overview for the paper. The diagram set out at the previous meeting is shown below.



Discussions on the paper circulated at the meeting included;

- a. A summary table is required.
- b. Conclusions are required i.e. a comparison of methods.
- c. It needs to be clear that the user can “mix” methods. Indeed a view was expressed that the methods presented only contain 3 fundamentally different approaches.
- d. Need a comparison of the methods against each other is needed. This could be by mean of a numerical example.
- e. What about shocks? Need to address the effects of shocks and how to create test for shocks.
- f. What about temperature?
- g. Do more methods need to be included to widen scope beyond transportation? (acoustically induced vibration was one suggestion).

The chairman undertook to prepare a modified version of the existing paper and circulate for additional input. However, the action for the group to review the exist draft remained.

Any Other Business

The possibility of a workshop on the process of test tailoring was discussed at the last meeting, this was taken up at the general meeting.

During the meeting Karl presented the EU Network of Excellence proposal. As this was also addressed at the general meeting it is not included here.

At the last meeting the group had been reminded that the previous CEEES main meeting had agreed to set up an improved web site. To this end the TABME needs to set out a mission statement (Action on Chairman) and include information on members. Participants were photographed at the meeting and asked for a short CV (photographs and preliminary CV's circulated since meeting).

Actions

- 1 Chairman to complete paper presented at meeting.
- 2 Markku to prepare draft of methodology overview
- 3 All Members to determine likely business case for transportation data CWA from national societies.
- 4 All members to supply CV for website

Next Meeting

The date of the next meeting of the TABME is planned for September 18th in Finland.

Attachments

- 1 Names and Addresses of DTAB Members
- 2 An Overview of European and International work

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An Overview of European and International work

Group / Standard	Connection with CEEES Working Group	Other Connections
ISO – TC 108 wg 26 &27		Kjell Ahlin
ISO – TC 122	Thomas Trost	
ISO - Railway		
IEC TC 104	David Richards Aad Van Dorp Markus Dumelin Markku Juntunen	Trygve Hell
CEN TC 261	Ulrich Braunmiller Thomas Trost	
CEN TC 320 Transportation Services		Soren Ostergaard
DIN 30787	Ulrich Braunmiller Karl Zieghan	Ed Furrer
BSI	David Richards	
UN Orange Book		
Mil Std 810		Skip Connon
Nato Standard - AC310		David Richards
Nato Standard - AC301	Markus Dumelin	Peter van Harmelen David Richards
Nato Standard - ITOPS		
CEN Workshop Agreement	Karl Zieghan	
IEC Railways		Odd Sylman